25

IN THE UNITED STATES DISTRICT COURT 1 FOR THE DISTRICT OF HAWAI'I 2 'ILIO'ULAOKALANI COALITION,) Civil No. 04-00502 DAE BMK 3 a Hawai'i nonprofit corporation; NA 'IMI PONO,) 4 a Hawai'i unincorporated association; and KIPUKA, a) 5 Hawai'i unincorporated association, 6 Plaintiffs, 7 8 VS. DONALD H. RUMSFELD, 9 Secretary of Defense; and FRANCIS J. HARVEY, 10 Secretary of the United States Department of the 11 Army, 12 Defendants. 13 14 DEPOSITION OF RONALD L. BORNE 15 Taken on behalf of the Plaintiffs, at the law 16 17 offices of Earthjustice, 223 South King Street, Third Floor Conference Room, Honolulu, Hawai'i, commencing at 18 9:36 a.m., on Monday, December 4, 2006, pursuant to 19 20 Notice. CARI VALLO, CSR No. 252, RPR 21 BEFORE: Notary Public, State of Hawai'i 22 PACIFIC REPORTING SERVICES UNLIMITED 23 Topa Financial Center

745 Fort Street, Suite 704 Honolulu, Hawai'i 96813 (808)524-7778

APPEARANCES: 1 For Plaintiffs 'Ilio'ulaokalani Coalition, a 2 Hawai'i nonprofit corporation; Na 'Imi Pono, a Hawai'i unincorporated association; and 3 Kipuka, a Hawai'i unincorporated association: 4 DAVID L. HENKIN, ESQ. Earthjustice 5 223 South King Street, Suite 400 Honolulu, Hawai'i 96813 6 (808)599-2436 7 For the Defendants Donald H. Kumsfeld, Secretary 8 of Defense, and Francis J. Harvey, Secretary of of the United States Department of the Army: 9 ROBERT M. LEWIS, ESQ. 10 Senior Trial Attorney Environmental Law Division 11 U.S. Army Litigation Center 901 N. Stuart Street, Suite 400 12 Arlington, Virginia 22203 (703) 606 1567 13 ~ JAMES D. GETTE, ESQ. 14 Trial Attorney, Natural Resources Section U.S. Department of Justice 15 Environment & Natural Resources Division 601 D Street, NW 16 Washington, DC 20004 (202)305-146117 18 Anna Mallon, William Aila ALSO PRESENT: 19 20 21 22 23 24 25

```
BY MR. HENKIN:
   7
                In the Army's disclosures with respect to the
   2
       proposed Stryker training, they identify for the
   3
       purposes of maneuvers certain go and no-go areas.
   4
   5
       those terms familiar to you?
               Yes, they are.
   6
         А
               Were you involved in the designation of go and
   7
         0
       no-go areas at Schofield East Range?
  8
  9
               Yes, I was.
               I'm going to show you a document that was
 10
      provided to me by the Army and ask you if you recognize
 11
 12
      it.
              Yes, I do.
 13
        Α
              What is that document?
 14
        Q
15
        Α
              This document was specifically developed for
      the Stryker's driver's training course. However.
16
17
      embedded in it is the go and no-go areas.
              MR. HENKIN: Could we please have that labeled
1.8
      as Exhibit 2.
19
20
                    (Deposition Exhibit 2 was marked.)
21
              With respect to what we've labeled as
       0
     Exhibit 2, do you see the legend in the lower
22
     right-hand corner?
23
             Yes, I do.
24
       Α
             And the designation or the indication for green
25
       Q
```

```
course, blue course, red course?
   1
                Yes, I do.
   2
         А
                The green course has a blue line next to it on
   3
         Q
       the legend; is that correct?
   4
               I'm sorry. Explain the question or the
   5
         Α
       instruction.
   6
               If you look at the legend, what color is the
  7
         Q
       line next to green course?
  8
                    It's listed as blue.
  9
        Α
               Oh.
               What color is the line next to blue course?
        0
 10
               Red.
 11
        A
        Q
               What is the color --
 12
               Green.
 13
        Α
               I need to finish the question.
        0
 14
15
              With respect to red course, it's --
16
        A
              Green.
              Could you explain why the color of the line is
17
      different than the name of the course?
18
              MR. LEWIS: Objection as to relevance.
19
              THE WITNESS: It is mislabeled.
20
     BY MR. HENKIN:
21
              What should the correct --
22
       Q
23
              In the legend. It is mislabeled in the legend.
       Α
     My knowledge, the courses depicted on the map are
24
25
     correct.
                The legend has just been reversed.
```

1	Q With this pen, could you please edit the legend
2	so we can refer to the courses by their proper names.
3	(Witness complies.)
4	Q With respect to the areas in purple on this
5	map, what do those indicate?
6	A The purple indicates areas that through a
7	series of criteria have been listed as potentially able
8	for a vehicle like a Stryker to maneuver into off the
9	road.
10	Q What are those criteria?
11	A I do not recall all of them, but I do know that
12	slope angle, topography, hydrology, and any other
13	restrictions either natural or cultural are considered
14	in determining that.
15	Oh and I'm sorry one I do recall.
16	Diameter of vegetation density.
17	Q Could you describe what that limitation would
18	be?
19	A That limitation would be grasses would not
20	be a limitation to vehicle transition, but brush
21	over with a diameter of a stalk or trunk over so
22	many inches would be considered a limitation.
23	Q Do you know how many inches?
24	A I know the maximum is four inches.
25	Q Would it be necessary for or does the Army

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contend that it would be necessary to use all of the purple areas in order to complete the training that is proposed for East Range?
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MR. LEWIS: Objection. Lack of foundation.

THE WITNESS: No, they do not.

BY MR. HENKIN:

1

2

3

4

5

б

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22

2 3

24

25

Q What is the basis for your saying they do not?

A East Range is being used for Stryker driver's training, and while that requires them on occasion to pull off the road to do certain either training tasks or for administrative reasons, they would not require all of the area that's listed in purple to do that training.

Q Are you involved in the decision as to which of these purple areas would be used?

A No.

Q Who is?

A The driver's training course supervisor -- I don't know if he's a supervisor, but there is a driver's training course head instructor -- would request those areas, and they would go through our range control.

Q If you're not responsible for making the decision regarding what areas would be requested, what's the basis of your knowledge that they would not

require all of these areas?

1

2

3

4

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1.2

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22

23

24

2.5

A When we initially went back to ask if any other requirements were to be requested specifically for training, we asked if the driver's training would require any area that had not been presently used, and the answer was no, that sufficient space was there for what they use today.

Q Are you familiar with which of the go areas are being presently used today?

A I am roughly familiar on the map. I'm very familiar on the ground with those areas.

Q Could you please circle in black the areas that are currently used today.

(Witness complies.)

A Barring minor pulloffs to the roadside. And when I say that, I mean to within five meters of the road or 10 meters of the road.

Q Barring that, what?

A Barring that that could happen anywhere on the colored roads, they would have to administratively stop for any reason and pull just off the road to allow other traffic to come by. The areas that they would maneuver further than that I believe are the areas that I have highlighted.

Q Just for clarification, in range area ER-5,

you've drawn a dark line to one side of the road.
What's the other limit of the --

- A Would be the road itself.
- Q I'm going to try and finish the question just for a clear record. I appreciate it's not normal conversation. It's a little awkward, but it will help the court.

So with respect to the area ER-5, only those portions, as the map is situated above the road, which I assume would be to the north of the road, would be used for off-road maneuvers; is that correct?

A That is correct.

2.4

- Q So other than the three areas that you have identified in range area ER-5, ER-3A, and then ER-1A going over on to ER-1B, these are the only off-road maneuver areas currently being used; is that correct?
 - A That is correct.
- Q For purposes of the request to the court for Stryker off-road maneuver training at East Range, these are the only areas that the Army believes that it needs; is that correct?
- A For Stryker drivers OPNET training, that is correct.
- Q In terms of what the Army is currently asking the court for leave to do, is there any other training

```
the first page 3-A and the second page 3-B.
   1
                    (Deposition Exhibits 3-A and 3-B were
  2
                    marked.)
  3
      BY MR. HENKIN:
  4
              Mr. Borne, if you could please describe what
  5
        Q
      we've labeled as Exhibit 3-A.
  6
              You have labeled 3-A Kahuku Training Area go/no
  7
      go area map from the environmental impact statement.
  8
      Figure 2.5, for the Stryker transformation in Hawai'i.
  9
              Exhibit 3-B is a generic range division
10
      produced map of the Kahuku training area that shows the
11
      training areas themselves, some internal road networks,
12
      and some prominent features.
13
              Are you familiar with the areas at Kahuku
14
       0
     Training Area where the Army proposes to have Stryker
15
     vehicles go off of established roads?
16
17
       A
             I am.
18
       0
             What is the basis of that familiarity?
       Α
             My personal discussions with the 2nd Brigade,
     either Colonel Banach or S3 operations officer.
             Who is that?
       Q
             Ben Eisner, Major Ben Eisner, with an E.
       Α
             Would you be able to mark with this black pen
     the areas at Kahuku where the Army seeks the
    opportunity to go off road with Stryker vehicles?
```

20

21

22

23

24

25

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Α
                Yes, I can.
   1
   2
                Thank you.
         Q
   3
                     (Witness complies.)
                While 2nd Brigade has not completely developed
   4
   5
       their training plan, these are the general areas we
       discussed.
   6
   7
               Other than the areas that you've outlined on
       Exhibit 3-A, are there any other areas that the Army is
   8
       currently asking the court to allow Strykers to perform
  9
      off-road maneuvers?
 10
               Only on designated road systems connecting
 11
      those areas together in the Kahukus.
 12
               But with respect to maneuvers off of existing
 13
        O
 14
      roads, are these four areas outlined in black on
 15
      Exhibit 3-A the only ones that the Army is currently
16
      asking the court for permission to use?
              MR. LEWIS:
                         Objection. Asked and answered.
17
              THE WITNESS: Yes, for off-road maneuver.
18
      BY MR. HENKIN:
19
20
              How will the Stryker vehicles using these
     off-road maneuvers at Kahuku Training Area know that
21
2 2
     they are within the limits of the areas you've
23
     designated on 3-A?
24
             MR. LEWIS:
                         Objection. Lack of foundation.
25
             THE WITNESS:
                            There will be two ways. One, the
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have witnessed the training, discussed with the instructors and their supervisors the training that they do today.
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In the Kahukus, my experience is only topographically having visually seen the areas myself in the past, knowing the vehicle maneuver capabilities, and for the Stryker discussions with 2nd Brigade personnel, Colonel Banach, and his operations officer.

MR. HENKIN: Why don't we take a five-minute break.

(Recess taken, 10:16-10:25 a.m.)

BY MR. HENKIN:

2 5

Q Mr. Borne, is the Army seeking to use -- sorry.

Try again.

As part of the Army's current request to the court for training involving Stryker vehicles, is it seeking any use of the area that was recently purchased from the Parker Ranch on the island of Hawai'i, known as the West Pohakoloa Training Area Acquisition Area?

A Not for initial operating capabilities for 2nd Brigade.

Q Could you please clarify what you mean by not for initial operating capabilities?

A Not use the Keamuku -- recently purchased

Keamuku parcel for 2nd Brigade to reach its capacity to

```
deploy.
  1
               Is it asking the court for use of the Keamuku
  2
      parcel for any other purpose?
  3
              No, it is not.
  4
              Does it have plans to use the Keamuku parcel
  5
      for any other purpose between now and the time that the
  6
      2nd Brigade deploys?
  7
              For training, no. I am not certain if there's
 8
      any implementation of any fire management or other
 9
     environmental concerns that have to be implemented for
10
     emergency reasons, like wild fire. But not for
ll
     training until that time.
12
              Who would know if there were any plans to do
13
     any nontraining activities on the Keamuku parcel
14
     between now and the time of deployment?
15
             At this point, I do not believe anyone is aware
16
       Α
     of them, that they need to implement any immediately.
     However, should wild fires become a problem,
     suppression, fire-break roads, those things may have to
     be implemented or managed.
             When you refer to the time of the 2nd Brigade's
     deployment, what time is that?
             Second brigade, I am not privy to the exact
      Α
    deployment of 2nd Brigade.
```

18

19

20

21

22

23

24

25

Has it received deployment orders?

practice tracer is the HEP-TP-T. And the 105 millimeter canister is as described.

1.7

Q With respect to the 900 -- well, how many rounds of 105 millimeter TPDS rounds does the Army expect to fire at Pohakoloa should the court grant their request?

A I would have to review the gunnery tables that describes the number of rounds that are fired for each gunnery table because this is exactly that. It would match that. It would not be a reflection on how many are allocated for a year because we're only asking to do OPNET training at Range 11T and not collective training with the gun system on another range.

I would have to look at the table, but I believe it's around 15 to 20 rounds depending on the variation.

Q Is this the document you're referencing?

A This is an extract of those tables, that is correct.

MR. HENKIN: Why don't we have that labeled as Exhibit No. 18.

(Deposition Exhibit 18 was marked.)

Q Based on your review of Exhibit 18, could you give an estimate of the number of each of the various types of 105 millimeter rounds that the Army is asking

the court for leave to fire between now and the time of the 2nd Brigade's deployment?

A I will have to go through and count it up, but yes, I can.

Q Well, if it's a question of simple math, could you just describe how you would calculate the number of rounds

A It gives you the ammunition and number of rounds in the ammunition column of each one of the tables that it describes in here. The first one that would use the 105 millimeter cannon round is listed in here as CT VI. And there's no page number, but it would be VI.

Q In order to calculate the total number of rounds, how would you do that?

A You would go through and add all of those under those specific titles as it lists it. Like the first one would be the second task, A2 one round of high explosive plastic training practice tracer, HEP-TP. So there's one.

To capture those, you would go through the remaining tables that are in here or just the -- not the CALFEX but the Tables VI, VII, and VIII. The advance gunnery collective tables would not be fired.

Q Where would the advance gunnery tables be

```
fired?
   1
               They would have to be fired at the National
   2
       Training Center. It requires a much larger range, and
   3
       in fact, they're not reflected in this briefing.
   4
               What does the acronym CT refer to?
  5
  б
               I do not know, although I do know they're
       commonly called tables, Table VI, Table VII, Table
  7
              So while I can't say what the C is, I know that
  8
      the T is table.
  9
               We'll go with table.
 10
        0
               I'll look through here and see if I can find
 11
        Α
      the acronym.
 12
13
              No.
                   That's okay.
        0
              But they are normally listed as Table VI, VII,
14
      and VIII.
15
              I'll go on the acronym finder.
16
        0
              Now, with respect to the number of rounds
17
     listed in Tables VI, VII, and VIII, does that reflect
18
     the total number of rounds fired by a single Stryker
19
20
     that is in the mobile qun system configuration?
              That is correct.
21
       Α
22
             Would you then have to multiply the number of
     rounds by the number of assigned Strykers in the MGS
23
     configuration that are assigned to the 2nd Brigade?
24
```

2.5

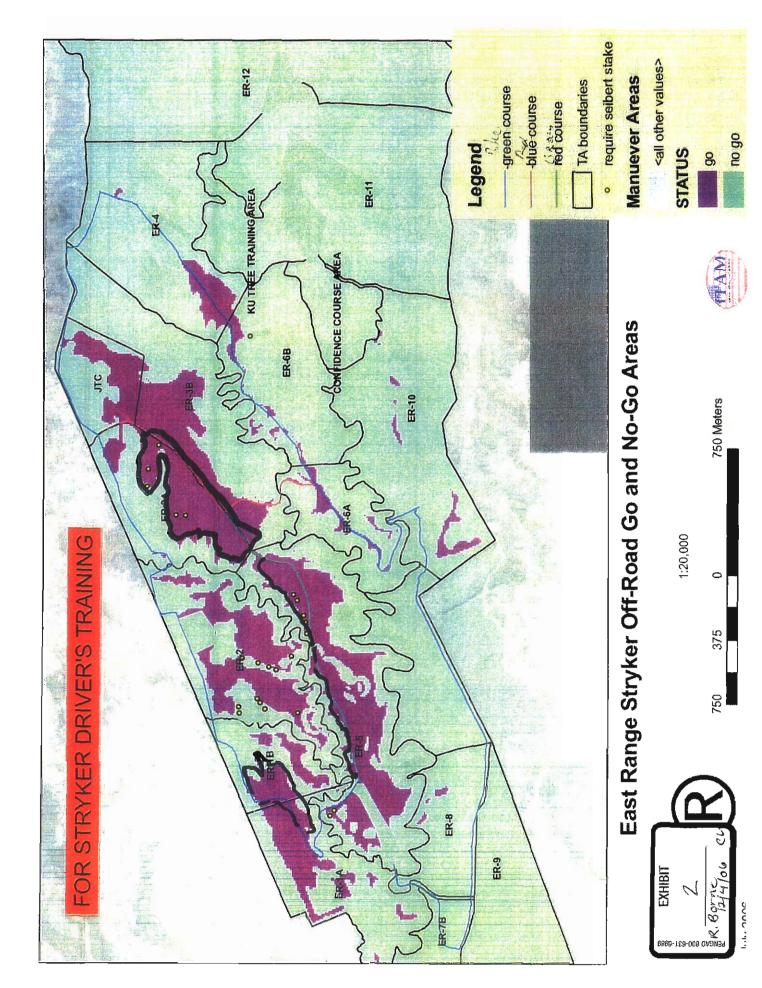
Α

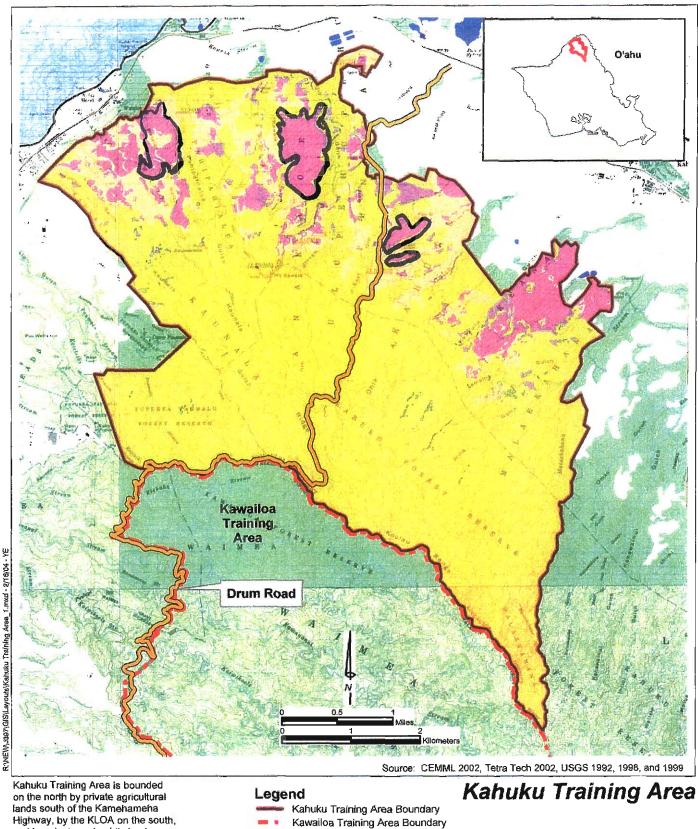
Correct.

	Q Do you know off the top of your head the
2	number?
3	A There's 39 that are assigned, if I'm not
4	mistaken, and I don't know if any of those are taken
5	off and put into what they call the maintenance for
б	lack of a better term, a maintenance pool. I would
7	have to go back and check, and Colonel Banach would
8	know exactly how many he was supposed to get.
9	Q I'm showing you a document that was included in
10	the Army's disclosure, Annex B Stryker Vehicle
11	Disposition. Does that help refresh your recollection?
12	A Yes, it does.
13	Q Therefore, how many Strykers in the MGS
14	configuration would need to be trained?
15	A Twenty-seven would need to do the gunnery
16	table. Twenty-seven crews and vehicles would need to
17	do the gunnery table.
18	Q So if one were to multiply the number of rounds
19	listed in Tables VI, VII, and VIII by 27, would that
20	give you the total number of rounds?
21	A Yes, that would give you the total numbers we
22	would need to fire.
23	Q Does that assume that the crews were fully
24	successful the first time around?
25	A That is an assumption.
(

```
If they were not fully successful, they would
   1.
       need additional rounds, I assume?
   2
               If they were not fully successful, they would
   3
      need additional rounds for that task that they failed.
   4
               If you could please reference Table V, task
   5
      A2S, do you see that one?
  6
  7
        Α
               Yes.
               There's reference to one round SLAP, all caps,
  8
      hyphen T. Do you see that?
  9
              Yes, I do.
 10
        Α
              To what does that refer?
 11
        O
              I don't know the specific acronym, but I do
 12
      know what that is. It's a short-range training
 13
      ammunition with a tracer. So it's a substitute weapon
14
      system.
15
              Substitute for what?
16
              If I'm not mistaken, it's a substitute for the
17
     large caliber weapon system. In other words, it's a
18
19
     bore device that could be used for the subcaliber
     system.
20
             If I understand correctly, this would be firing
21
     out of the 105 millimeter qun but with a smaller
22
     caliber --
23
             I don't know that it fires through the bore,
24
25
     but it may be attached to the barrel or something to
```

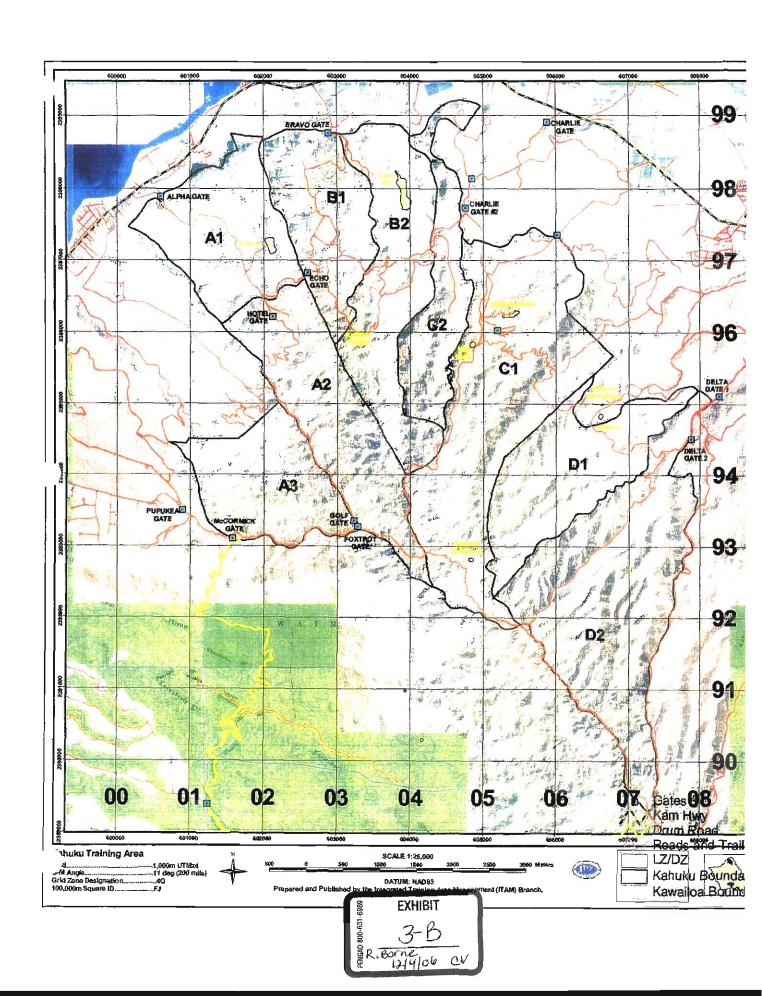
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STATE OF HAWAI'I
   1
                                      ) SS.
       CITY AND COUNTY OF HONOLULU
   2
   3
               I, CARI VALLO, CSR No. 252, a Notary Public in
       and for the State of Hawai'i, do hereby certify:
   4
  5
               That on Monday, December 4, 2006, at 9:36 a.m.,
       appeared before me RONALD L. BORNE, the witness whose
  6
      testimony is contained herein; that prior to being
      examined, the witness was duly sworn or affirmed; that
  7
      the proceedings were taken in computerized machine
      shorthand by me and were thereafter reduced to print
  8
      under my supervision; that the foregoing represents, to
      the best of my ability, a correct transcript of the
  9
      proceedings had in the foregoing matter;
 10
               That, if applicable, the witness was notified
      through counsel, by mail, or by telephone to appear and sign; that if the transcript is not signed, either the
 11
      reading and signing were waived by the witness and all
12
      parties or the witness has failed to appear and the
      original is therefore kept on file without signature
13
      pursuant to Court rules;
14
              That pursuant to HRCP 30(f)(1), the original
15
      will be forwarded to noticing counsel for retention,
      unless otherwise agreed to by all counsel.
16
17
              I further certify that I am not counsel for any
     of the parties hereto nor in any way interested in the
18
     outcome of the cause named in the caption.
19
              Dated this 8th day of December, 2006, in
20
     Honolulu, Hawai'i.
21
22
              Notary Public, State of Hawai'i
23
              My Commission expires: November 6, 2008
              CARI VALLO, CSR No. 252, RPR
24
25
```





and by private and public lands on the remaining perimeter.

State Land Use District Boundary O'ahu, Hawai'i Stryker maneuver area Strykers restricted to roads (no off road maneuvers) Drum Road Water Figure 2-5 **EXHIBIT**



6869-169-008 QAS

EXHIBIT

ANNEX H (MGS GUNNERY SOP)

MGS Gunnery So

Preparatory Crewmember raining

- Fundamentals of safety, maintenance, and communication
- Safety:
- Mount/Dismount vehicle
 - Emergency situations
 - Rollover drillsFire evac drills
 - Ammo fire
- Loss of power, steering, or brakes
- Maintenance:
- PMCS
- Prep to Fire Checks (Should be conducted weekly)
 - AACs (Should be conducted monthly)
- Basic recovery techniques
- Operator troubleshooting procedures
- Communication:
- Use FM and digital commo procedures
- Use visual signaling techniques

Note: These tasks are continuously trained all year round during daily operations.

Crew Skills Training

Phase I Fire control training:

- Switchology training (training to use all switches and controls in a rapid manner).
- Prep-to-fire checks (checks from operators manual) MGS TM is not in final copy yet.

Phase II Manipulation drills:

- Gun laying exercises (trains the VC/Gnr in the fundamentals of weapon system manipulation; EAR).
- Target designating exercises (Individual training by crew station with an evaluator).
- Tracking and manipulation training (utilizing large boards designed to improved hand eye coordination and progresses to more advanced
- Target hand off (individual VC/GNR progressing from target to target). These tasks are continuously trained throughout the year and are trained/supported in Embedded trainer as well as IDAGTS/AGTS.

MGS Crew Gunnery Skills Test

Crewmembers must successfully pass the CGST within six months before firing.

Stations:

0

1 AFVID

OPNE⊺ Entry Requirement

OPNET Entry Requirement

OPNET Entry Requirement

2 Ammo ID

3 M240

4 M2

OPNET Entry Requirement

5 Firing pin

6 Auto-load

7 Boresight

9 Misfire procedures 8 Manual Loading

10 Gunner's station 11 Digital Spotrep

OPNET Entry Requirement

Preliminary Gunnery Training

Thermal mode training

- Training use of vehicle thermal optics.
- Can conduct using Embedded Trainer (ET)/AGTS.
- Thermal AFVID

Target acquisition training

- Correct, rapid target acquisition and classification.
- Can conduct using Embedded Trainer (ET)/AGTS.

Range Estimation/Determination training

Use of vehicle optics and dismounted methods.

Preliminary Gunnery Training

Digital training

Crews will use the IDAGTS starting in Jan 07 until the MGS arrive.

Crews then will use the embedded trainer (ET) a minimum of two hours per week

Gunners will be evaluated by VC/PSG.

VCs will be evaluated by PSG.

Crews should cross-train a minimum of two hours a month.

MGS Combat Tables

- Semi annual qualification requirement
 - Basic Combat Tables
- CT I: Basic Gunnery Skills, (Individual)
- CT II: Basic Gunnery Skills, (Crew/Individual)
- CT IV: Crew Proficiency Course (CPC) Gate CT CT III: Basic Training Course (Crew)
 - Must qualify within 6 months of CT VIII.
 - Intermediate Combat Tables
- CT V: Preliminary MGS Weapons Training CT VI: Intermediate Main Gun Training
 - - CT VII: Intermediate Training Course
- CT VIII: Intermediate Qualification Course (Gate CT)
 - Must qualify to fire CT X.
- Must qualify within 6 months of CTC live fire.
 - Advanced Combat Tables
- CT IX: Collective Training Course (Section/Platoon)
 - CT X: Collective Qualification Course (Platoon)

Note: All CTs may be fired dry, device-based, or both except CT VIII and CT X

Basic Combat Tables

- Basic Combat Tables
- CT I: Basic Gunnery Skills, (Individual)
- CT II: Basic Gunnery Skills, (Crew/Individual)
- CT III: Basic Training Course (Crew)
- CT IV: Crew Proficiency Course (CPC) Gate
- Must qualify within 6 months of CT VIII.
- These may be fired Dry or device based
- Example Link

																								,			
	09/	NO-GO	9	NO-GO	60	OĐ-CN	09	NO-60	09	NO-GO	90	NO-GO	09	NO-GO	9	NO.GO	99	NO-GO	09	ON ON	99	NO-G0		09	NO-GO	99	NO-GO
		EFFECT					HIT	MISS	H	Miss	HIT	MISS	HT	MISS	皇	MISS	量	MISS	HIT	MISS							
	CREW	SAT	;	UNSAT	SAT	UNSAT	SAT	UNSAT	SAT	UNSAT	SAT	UNSAT	SAT	UNSAT	SAT	UNSAT	SAT	UNSAT	SAT	UNSAT	SAT	UNSAT		SAT	UNSAT	SAT	UNSAT
-	STANDARDS	Track each board, in	sequence, within 60 seconds.		Track each board, in sequence, within 60 seconds.		Hit 7 of 10 targets within 60 seconds.		Hit 7 of 10 targets within 60 seconds.		Hlt 7 of 10 targets within 60 seconds.		Hit 7 of 10 targets within 60 seconds.		Hit target within 8 seconds after first-round miss in	elevation.	Hit target within 8 seconds after first-round miss in	deflection,	Lay main gun within 10 seconds (each target	evaluated separately).	Select and conduct	functions within 5 seconds,		select and conduct announced switches or	functions within 5 seconds.	Acquire and designate each target within 7 seconds.	
	CONDITIONS	4 tracking board solutions. Use	CMS, TIS, and auxillary sight.		4 tracking board solutions. Use CDU and CPV.		10 stationary targets. Use the CMS.		10 stationary targets, Use the auxiliary sight.		To stationary targets. Use the CDU, manual controls.		10 stationary targets. Use the auxiliary sight, manual controls.		1 stationary target. Use the CMS. (First round sensed as "over" or		1 stationary target. Use the CMS. (First round sensed as	"doubtul.")	10 targets presented individually. Use the commander's control	handle (CCH).	10 switches and functions. Use the CMS.		10 switches and functions		4 0 4	iv targets (sector predetermined).	
	TASK	1. Negotiate a tracking board from	complete y mos (guiller).	2 Neontiate a tracking house	a stationary MGS (VC).	L	sa. Engage targets from a stationary MGS.	2), 5	sb. Engage targets from a stationary MGS.	3. Endand towards from	stationary MGS. (VC)	70	od. Engage targets from a stationary MGS.		4a. Apply one-half target form correction from a stationary MGS.		4b. Apply one-nair target form correction from a stationary MGS.	5 av the main mine feet at 1	(VC)	4 - P	switches or functions from the	gunner's station (switchology) (gunner).	7. Select and conduct announced	switches or functions from the VC's station,	8. Acquire and designate targets	from the VC position.	

	GO/NO-GO	05	NO-GO	NO-GO	00 NO-G0	09	9	00-00	NO-GO	GO NO-GO	GO NO-GO	09	09-00	NO-GO	60 No-60	09	NO-GO	NO-GO	60 NO-60	60 NO.60	09	09-00	NO-GO	00 NO-G0	GO NO-GO	G0 N0-G0
	EFFECT	불	MISS	MISS	HIT	HIT	H.	HIT	MISS	MISS	HT MISS	HIT	HIT	MISS	HIT MISS	H	MISS	MISS	HIT MISS	HIT	HIT	HE TEN	MISS	MISS	HIT MISS	HIT MISS
	CREW/DUTIES	SAT	SAT	UNSAT	UNSAT	SAT	SAT	SAT	CAT	UNSAT	SAT UNSAT	SAT	SAT	UNSAT	SAT	SAT	SAT	UNSAT	SAT UNSAT	SAT UNSAT	SAT	SAT	UNSAT	UNSAT	SAT UNSAT	SAT UNSAT
!	STANDARDS	Hit target within 6 seconds.	Hit target within 6	Hit farnet within 6	seconds.	Hit target within 6 seconds.	Hit target within 6 seconds.	Hit target within 6	Hit target within 6	seconds.	Hit target within 6 seconds.	Hit target within 6 seconds.	Hit target within 6	All farmet within 40	Seconds.	Hit target within 10 seconds.	Hit target within 6	seconds. Hit tarnet within c	seconds.	Hit target within 6 seconds.	Hit target within 6 seconds.	Hit target within 6	Hit target within 6	seconds.	nit target within 6 seconds.	Hit target within 6 seconds.
CONDITIONS	1 Stationary tank. Use CMS ctability attach	- 1	1 stationary tank. Use TIS, stabilizetion on.	1 stationary tank. Use AUX (announced range),	stabilization on,	Section on, Stabilization on,	1 moving PC. Use CMS, stabilization on.	1 moving tank. Use TIS, stabilization on.	1 moving helicopter. Use CMS/TIS, stabilization on.	1 moving PC. Use CMS/ Tie etahilization att	4 Moving ton Line and A	on.	1 moving PC. Use AUX (announced range), stabilization on.	1 moving tank. Use AUX (announced range), manual	mode.	I moving FC. Use AUX (announced range), manual mode,	1 moving evasive tank. Use CMS/TIS, stabilization on.	1 moving PC. Use CDU, stabilization on.	1 moving tank Hea Chil seabilization	sector, stabilization on,	<u> </u>	1 moving PC. Use CPV or CDU stabilization on.	1 stationary PC. Use CPV or CDU, stabilization off.	1 moving tank. Use CPV or CDU, stabilization off	1 set of froms. Hea CDV or Chilesters.	or o
TASK	1. Engage target from stationary	MGS.	4. Eligage target from stationery MGS.	3. Engage target from stationary MGS.	4. Engage target from stationary	MGS.	MGS.	6. Engage target from stationary MGS.	 Engage target from stationary MGS. 	8. Engage target from stationary	MGS. 9. Engage target from stationary		 10. Engage target from stationary MGS. 	11. Engage target from stationary	12. Engage target from stationary		 Engage target from stationary MGS. 	14. Engage target from stationary MGS.	15. Engage target from stationary	MGS.	MGS.	MGS.	18. Engage target from stationary MGS,	19. Engage target from stationary	20. Engage target from stationary	MGS.

|--|

TASK	CTIIIA	STANDABLE	CREW DUTIES		(90/
 Engage target from a defensive firing position. 	Move from turret-down to hull-down. 1 stationary PC, 900 to 1,000 meters, the case	Hit target within 10	SAT	EFFECT	NO-G0
2. Engage target from a defensive	Move from turret-down to hull-down.	seconds,	UNSAT	MISS	NO-GO
riring position.	1 stationary tank, 900 to 1,000 meters. Use the AUX. CBRN environment.	rik target within 10 seconds.	SAT UNSAT	HIT MISS	GO NO-GO
3. Engage target from a moving MGS.	1 stationary tank, 1,400 to 1,600 meters. Use TIS.	Hit target within 10 seconds.	SAT	井	09
4. Engage target from a moving	1 moving doubt 4 900 t. 4 400		I KOND	MISS	NO-G0
MGS.	incyring tarrix, 1,200 to 1,400 meters. Use CMS,	Hit target within 10 seconds.	SAT UNSAT	HIT	09 09 09 09 09
firing position.	1 stationary flank tank, 1,600 to 1,800 meters. ELRF failure (determine range using stadia reticle). Stabilization failure.	Hit target within 10 seconds.	SAT	HIT	GO NO-GO
6. Engage target from a defensive firing position.	1 stationary tank in defilade, 800 to 1,000 meters. Use CPV or CDU.	Hit target within 10	SAT	H	09
7. Engage target from a moving MGS during a short halt.	1 stationary tank, 1,400 to 1,600 meters. Stabilization failure.	Hit target within 10	SAT	HIT	NO-GO GO
8. Engage target from a defensive	1 stationary flank PC, 1,200 to 1,500 meters. Two-man	Tit towns and	UNSAT	MISS	NO-GO
riring position.		seconds.	SAT	HIT MISS	GO NO-GO
9. Engage target from a defensive	1 stationary PC, 800 to 1,200 meters. Two-man crew.	Hit target within 10			
- To position.	ELRF failure. Use CPV or CDU,	seconds.		片	05
10. Engage multiple targets from a	2 stationary tanks 4 and 4-0 and		UNSAT	MISS	NO-G0
defensive firing position.	Councillary talins, 1,000 to 2,000 meters. Use CMS.	Hit targets within 20 seconds.	SAT	HT	09
11. Engage multiple targets from a	d sekratic and a second		UNSAT	MISS	NO-GO
defensive firing position.	i stationary tauth, 1,400 to 1,500 meters; 1 stationary flank tank, 1,300 to 1,500 meters. Use CPV or CDU.	Hit targets within 20 seconds.	SAT	돺	09
12. Engage target from a defensive	1 moving ballocator 4 400 to 4 500		UNSAT	MISS	NO-GO
firing position.		Hit target within 20 seconds.	SAT	HT	09
13. Engage multiple targets from a	4 and decree and a new		UNSAT	MISS	NO-GO
moving MGS.	set troops, 400 to 600 meters; 1 set of troops, 700 to 900 meters.	Hit targets within 20 seconds,	SAT	둦	09
14. Engage multiple targets from a	OSE CIMO.		UNSAT	MISS	NO-GO
defensive firing position.	tinovirightaink, 1,400 to 1,600 meters; 1 stationary tank, 1,300 to 1,500 meters. Use CMS.	Hit targets within 20 seconds.	SAT	븊	09
15. Engage multiple targets from a	1 Stationary tank 900 to 4 400		UNSAT	MISS	NO-GO
moving MGS.	1,600 to 1,800 meters. Use CDU. Two-man crew.	Hit targets within 20 seconds.	SAT	HIT	09
•			UNSAT	MISS	C

TASK	CONDITIONS	STANDARDS	CREW DUTIES	EFFECT	GO/ NO-GO
Engage multiple targets from a defensive firing position.	2 stationary PCs, 1,100 to 1,300 meters. Use TIS.	Hit targets within 20 seconds.	SAT UNSAT	HIT	GO NO-GO
2. Engage target from a moving MGS.	1 moving tank, 1,200 to 1,400 meters. Use TIS.	Hit target within 10 seconds.	SAT UNSAT	HIT	GO NO-GO
3. Engage target from a moving MGS.	1 moving tank, 1,200 to 1,400 meters. Use CPV or CDU	Hit target within 10 seconds.	SAT UNSAT	HIT MISS	GO NO-GO
4. Engage target from a defensive firing position.	1 evasive tank, 900 to 1,100 meters. Use TIS.	Hit target within 10 seconds.	SAT UNSAT	HIT MISS	GO NO-GO
5. Engage target from a defensive firing position.	1 moving tank, 1,400 to 1,600 meters. Use TIS.	Hit target within 10 seconds.	SAT UNSAT	HIT MISS	60 NO-60
6. Engage multiple targets from a moving MGS.	2 stationary tanks, 900 to 1,100 meters. Use TIS. CBRN environment.	Hit targets within 20 seconds.	SAT UNSAT	HIT	GO NO-GO
7. Engage multiple targets from a moving MGS.	2 stationary tanks, 900 to 1,100 meters. Use TIS.	Hit targets within 20 seconds.	SAT UNSAT	HIT MISS	09-0N
8. Engage multiple targets from a defensive firing position.	1 stationary tank, 1,400 to 1,600 meters; 1 moving tank, 900 to 1,100 meters. Use TIS.	Hit targets within 20 seconds.	SAT UNSAT	HIT	GO NO-GO

CT IV CPC

Idsk	Ammunition	Targets	Conditions
Task A1, Defense.	Dry/device-based	Stationary frontal PC, 700 to 900 meters, exposed for 60 seconds (gunner).	CMS, MGC, ELRF failure
Task A2. Defense.	Dry/device-based	Infantry squad, 100 to 300 meters, exposed for 50 seconds (gunner).	None
Task A3. Offense.	Dry/device-based	Moving technical truck, 500 to 700 meters, exposed for 50 seconds (VC).	CWS, short halt
Task A4S. Defense.	Dry/device-based	Stationary technical truck, 300 to 500 meters, exposed for 50 seconds (VC).	CWS
Task A5. Defense.	Dry/device-based	Wall (infantry passage), 500 to 700 meters, exposed for 50 seconds (gunner).	CBRN (hatches closed, protective mask on)
Task B1. Offense.	Dry/device-based	RPG team, 100 to 300 meters, exposed for 50 seconds (gunner).	None
Task B2. Offense.	Dry/device-based	Stationary frontal tank, 1,200 to 1,400 meters, exposed for 50 seconds (gunner).	CBRN (hatches closed, protective mask on)
Task B3. Defense.	Dry/device-based	Window (room clearing), 500 to 700 meters, exposed for 50 seconds (qunner).	None
Task B4S. Defense.	Dry/device-based	Sniper In 2d-story window, 100 to 300 meters, exposed for 50 seconds (VC).	GPCH failure
Task B5. Offense.	Dry/device-based	Bunker, 400 to 600 meters, exposed for 50 seconds (gunner).	None

74601	MGSTat	MGS Table V—Preliminary MGS Weapons Training	s Training	
	AMMUNITION	TARGET 1	TARGET 2	CINCITICINO
	100 rounds Caliber .50	RPG team, 100 to 300 meters, exposed for 50 seconds (VC).	Stationary technical truck, 300 to 500 meters, exposed for 50 seconds (VC)	Coax expended
	1 round SLAP-T	Window (room clearing), 500 to 700 meters, exposed for 50 seconds (gunner).	(2)	None
	1 round SLAP-T	Stationary frontal tank, 1,000 to 1,200 meters, exposed for 60 seconds (gunner).		CMS, MGC, ELRF failure
	100 rounds 7.62mm	RPG team, 300 to 500 meters, exposed for 50 seconds (gunner).	Sniper in window, 100 to 300 meters, exposed for 50 seconds (gunner).	CBRN (hatches closed, protective mask on)
	100 rounds Caliber .50	RPG team, 300 to 500 meters, exposed for 50 seconds (VC).	RPG team, 200 to 400 meters, exposed for 50 seconds (VC)	Coax expended, short hait
	50 rounds 7.62mm	Infantry squad, 100 to 300 meters, exposed for 50 seconds (VC).		GPCH failure
	50 rounds 7.62mm	Sniper In 2d-story window, 100 to 300 meters, exposed for 50 seconds (gunner).		None
	4 rounds SLAP.T	Wall (infantry passage), 500 to 700 meters, exposed for 50 seconds (gunner).		None
	4 rounds SLAP-T	Bunker, 400 to 600 meters, exposed for 50 seconds (gunner).	Bunker, 600 to 800 meters, exposed for 50 seconds (gunner).	CBRN (hatches closed, protective mask on)
	100 rounds 7.62mm	Infantry squad, 200 to 400 meters, exposed for 50 seconds (gunner).	Stationary technical truck 500 to 700 meters, exposed for 50 seconds (gunner).	None





Intermediate Gunnery

CT V: Preliminary MGS Weapons Training

CT VI: Intermediate Main Gun Training

CT VII: Intermediate Training Course

CT VIII: Intermediate Qualification Course (Gate CT)

Must qualify to fire CT X.

Must qualify within 6 months of CTC live fire.

These tables may be fired dry or device based except CT VIII.

Example Link

### PRPG team, 10 to 300 meters, 500 meters, 500 meters, axposed for 50 seconds (gurner). Tround HEP.TP-T	7001				
100 rounds 7.62-mm RPG team, 100 to 300 meters, 500 meters, axposed for 50 seconds (gunner). 1 round HEP-TP-T Wall (infantry passage), 400 to 660 meters, axposed for 50 seconds (gunner). 1 round HEP-TP-T Stationary frontal PC, 900 to 1,100 meters, axposed for 50 seconds (gunner). 1 Canister round 7.62-mm (gunner). 1 Canister round 8.7.62-mm (gunner). 2 Tounds HEAT-TP-T (gunner). 3 Stationary feed for 50 seconds (gunner). 4 Tround TPDS-T (gunner). 5 Gunner (gunner). 5 Gunner (gunner). 5 Gunner (gunner). 5 Gunner (gunner). 6 Gunner (gunner). 7 Tounds HEAT-TP-T (gunner). 8 Stationary feed for 50 seconds (gunner). 8 Stationary feed for 50 seconds (gunner). 9 Stationary feed for 50 seconds (gunner). 1 Fround TPDS-T (gunner).	1000 m	AMMUNITION	TARGET 1	TARGET 2	CONTIGNO
1 round HEP-TP-T Wall (infantry passage), 400 to 600 meters, exposed for 50 seconds (VC). Stationary frontal PC, 900 to 1,100 meters, exposed for 60 seconds (Moving Itank PC, 800 to 1,000 meters, exposed for 50 seconds (Moving Itank PC, 800 to 1,000 meters, exposed for 50 seconds (Moving Itank PC, 800 to 1,000 meters, exposed for 50 seconds (Moving Itank PC, 800 to 1,000 meters, exposed for 50 seconds (Gunner). (Gunner). 100 rounds 7.62mm RPG team, 200 to 400 meters, (Gunner). (Gunner). 100 rounds 7.62mm RPG team, 200 to 400 meters, (Gunner). (Gunner). 1 Canister round 10-man infantry squad, 100 to 300 meters, exposed for 50 seconds (Gunner). (Gunner). 1 Canister round 1 Canister round Moving Itank PC, 500 to 700 meters, e pool meters, exposed for 50 seconds (Gunner). 1 Tround HEAT-TP-T Moving Itank PC, 500 to 700 meters, exposed for 50 seconds (Gunner). 2 Tounds T.62mm Moving Itank PC, 500 to 700 meters, exposed for 50 seconds (Gunner). 2 Tounds HEAT-TP-T Bunker, 500 to 700 meters, exposed for 50 seconds (Gunner). 2 Tound HEAT-TP-T Bunker, 500 to 700 meters, exposed for 50 seconds (Gunner). 2 Tound TPDS-T 1 Tound T	lask A1S. Offense	100 rounds 7.62-mm	RPG team, 100 to 300 meters, exposed for 50 seconds (gunner).	Moving technical truck, 300 to 500 meters, exposed for 50 seconds (gunner)	None
3 rounds HEAT-TP-T Stationary frontal PC, 900 to 1,100 Moving flank PC, 800 to 1,000 meters, exposed for 60 seconds (gunner). RPG team, 200 to 400 meters, Accounds (Junnar). RPG team, 200 to 400 meters, Accounds (Junnar). RPG team, 200 to 400 meters, Accounds (Junnar). 1 Canister round 2 Tounds 7.62mm RPG team, 200 to 400 meters, Accounds (Junnar). RPG team, 200 to 400 meters, Accounds (Junnar). RPG team, 200 to 400 meters, Accounds (Junnar). Accounds 7.62mm RPG team, 200 to 700 meters, Accounds (Junnar). Accounds 7.62mm Moving flank PC, 500 to 700 meters, Accounds 7.62mm Moving flank PC, 500 to 700 meters, Accounds (Junnar). Bunker, 500 to 700 meters, exposed for 50 seconds (Junnar). 2 rounds HEAT-TP-T Bunker, 500 to 700 meters, exposed for 50 seconds (Junnar). 1 round TPDS-T 2 rounds REAT-TP-T 2 rounds REAT-TP-T 3 rounds REAT-TP-T 4 round TPDS-T 1 round TPDS-T 2 rounds REAT-TP-T 3 rounds REAT-TP-T 4 round TPDS-T 1 round TPDS-T 2 rounds Rearrance 2 rounds Rearrance 3 rounds Rearrance 4 rounds Rearrance 5 rounds Rearrance 5 rounds Rearrance 5 rounds Rearrance 6	Task A2. Defense	1 round HEP.TP.T	Wall (infantry passage), 400 to 600 meters, exposed for 50 seconds (VC).		GPCH failure
100 rounds caliber .50 RPG team, 200 to 400 meters, Aposed for 50 seconds (VC). 1 Canister round T5 rounds 7.62-mm RPG team, 200 to 400 meters, Aposed for 50 seconds (10 to 300 meters, exposed for 50 seconds (10-second delay) (YC). 100 rounds 7.62-mm RPG team, 200 to 400 meters, Aposed for 50 seconds (gunner). 101 round HEAT-TP-T So rounds 7.62-mm RPG team, 500 to 700 meters, exposed for 50 seconds (gunner). 102 rounds HEAT-TP-T So rounds 7.62-mm RPG team, 500 to 700 meters, exposed for 50 seconds (gunner). 1 round TPDS-T Stationary frontal tank, 1,400 to 300 meters, exposed for 50 seconds (gunner). 2 rounds TPDS-T Stationary frontal tank, 1,400 to 300 meters, exposed for 50 seconds (gunner). Stationary frontal tank, 1,400 to 300 meters, exposed for 50 seconds (gunner). Stationary frontal tank, 1,400 to 300 meters, exposed for 50 seconds (gunner). Stationary frontal tank, 1,400 to 300 meters, exposed for 50 seconds (gunner).	Task A3. Defense	3 rounds HEAT-TP-T	Stationary frontal PC, 900 to 1,100 meters, exposed for 60 seconds (gunner).	Moving flank PC, 800 to 1,000 meters, exposed for 60 seconds (gunner).	CMS, MGC, ELRF failure
1 Canister round 10-man infantry squad, 100 to 300 15 rounds 7.62-mm 10 meters, exposed for 50 seconds (10-second delay) 11 Canister round 12 counds 7.62mm 12 counds HEAT-TP-T 13 moving flank PC, 500 to 700 meters, exposed for 50 seconds 14 cound TPDS-T 15 round TPDS-T 16 main infantry squad, 100 to 300 17 counds HEAT-TP-T 18 moving flank PC, 500 to 700 meters, exposed for 50 seconds 18 meters, exposed for 50 seconds 19 meters, exposed for 50 seconds 10 meters, exposed for 50 seconds 11 meters, exposed for 50 seconds 12 meters, exposed for 50 seconds 13 meters, exposed for 50 seconds 14 meters, exposed for 50 seconds 15 meters, exposed for 50 seconds 16 meters, exposed for 50 seconds 17 meters, exposed for 50 seconds 18 meters, exposed for 50 seconds 19 meters, exposed for 50 seconds 10 meters, exposed for 50 s	Task A4. Offense	100 rounds caliber .50	RPG team, 200 to 400 meters, exposed for 50 seconds (VC).	Moving technical truck, 500 to 700 meters, exposed for 50 seconds (10-second delay) (VC).	Coax expended, short halt
100 rounds 7.62mm RPG team, 200 to 400 meters, 5niper in 2d-story window, 200 exposed for 50 seconds (gunner). 1 Canister round 25 rounds 7.62mm (gunner). 1 round HEAT-TP-T 50 rounds AEAT-TP-T 50 rounds HEAT-TP-T 51 round FAT-TP-T 52 rounds HEAT-TP-T 53 rounds HEAT-TP-T 54 rounds HEAT-TP-T 55 rounds AEAT-TP-T 55 rounds AEAT-TP-T 56 rounds AEAT-TP-T 57 rounds HEAT-TP-T 58 rounds AEAT-TP-T 59 rounds AEAT-TP-T 59 rounds AEAT-TP-T 50 rounds AEAT-TP-TP-TP-TP-TP-TP-TP-TP-TP-TP-TP-TP-TP	Task A5. Defense	1 Canister round 75 rounds 7.62-mm	10-man infantry squad, 100 to 300 meters, exposed for 50 seconds (gunner).	Stationary technical truck, 700 to 900 meters, exposed for 50 seconds (10-second delay)	CBRN (hatches closed, protective mask on)
1 Canister round 25 rounds 7.62mm (gunner). 1 round HEAT-TP-T Avoing flank PC, 500 to 700 meters, exposed for 50 seconds 50 rounds 7.62mm 2 rounds HEAT-TP-T Bunker, 500 to 700 meters, exposed for 50 seconds for 50 seconds for 50 seconds for 50 seconds 2 rounds HEAT-TP-T Bunker, 500 to 700 meters, exposed for 50 seconds for 50 seconds for 50 seconds for 50 seconds seconds seconds for 50 seconds seconds for 50 seconds seconds for 50	Task B1S. Offense	100 rounds 7.62mm	RPG team, 200 to 400 meters, exposed for 50 seconds (gunner).	Sniper in 2d-story window, 200 to 400 meters, exposed 50 seconds (gunner).	None
1 round HEAT-TP-T Moving flank PC, 500 to 700 meters, exposed for 50 seconds (gunner). 2 rounds HEAT-TP-T Bunker, 500 to 700 meters, exposed for 50 seconds for 50 seconds (gunner). 3 round TPDS-T Stationary frontal tank, 1,400 to 1,600 meters, exposed for 50 seconds seconds (gunner).	lask B2. Offense	1 Canister round 25 rounds 7.62mm	10-man infantry squad, 100 to 300 meters, exposed for 50 seconds (gunner).		None
2 rounds HEAT-TP-T Bunker, 500 to 700 meters, exposed for 50 seconds (gunner). 1 round TPDS-T Stationary frontal tank, 1,400 to 1,600 meters, exposed for 50 seconds (gunner).	Task B3. Offense	1 round HEAT-TP-T 50 rounds 7.62mm	Moving flank PC, 500 to 700 meters, exposed for 50 seconds (gunner).	RPG team, 500 to 700 meters, exposed for 50 seconds (gunner).	None
1 round TPDS-T Stationary frontal tank, 1,400 to 1,600 meters, exposed for 50 seconds (gunner).	Task B4, Defense	2 rounds HEAT-TP-T	Bunker, 500 to 700 meters, exposed for 50 seconds (gunner).	Bunker, 700 to 900 meters, exposed for 50 seconds (gunner).	CBRN (hatches closed, protective mask on)
	Task B5. Defense	1 round TPDS-T	Stationary frontal tank, 1,400 to 1,600 meters, exposed for 50 seconds (gunner).		None

TASK Task A1. Defense	AMMUNITION 1 canister round 25 rds 7.62-mm	10-man infantry squad, 100	TARGET 2 Bunker, 400 to 600 meters,	TARGET 2	CONDITIONS
Task A2. Defense	1 rd HEAT-TP-T 2 rds HEP-TP-T 50 rds 7.62mm	50 seconds (gunner). Wall (Infantry passage), 300 to 500 meters, exposed for 60 seconds (gunner).	exposed for 50 seconds (gunner). RPG team, 500 to 700 meters, exposed for 60 seconds (gunner).		None CMS, MGC, ELRF failure
Defense	1 canister round 1 rd HEP-TP-T 75 rds 7.62mm	10-man infantry squad, 100 to 300 meters, exposed for 50 seconds (gunner).	Sniper in 2d-story window, 200 to 400 meters, exposed for 50 seconds (gunner).	Window (room clearing), 500 to 700 meters, exposed for 75 seconds (qunner).	CBRN (hatches closed, Protective mask on)
	1 rd TPDS-T 100 rds 7.62mm	Moving flank tank, 1,200 to 1,400 meters, exposed for 50 seconds (gunner).	Stationary technical truck, 500 to 700 meters, exposed for 75 seconds (gunner).	RPG team, 300 to 500 meters, exposed for 60 seconds (15-second delay) (gunner).	None
Offense	100 rds caliber .50	RPG team, 100 to 300 meters, exposed for 60 seconds (VC).	RPG team, 300 to 500 meters, exposed for 60 seconds (VC).		Coax expended, short halt
	2 rds HEAT-TP-T	Stationary frontal PC, 900 to 1,100 meters, exposed for 50 seconds (gunner).	Moving flank PC, 1,400 to 1,600 meters, exposed for 50 seconds (gunner).		None
Task B2. Offense	1 rd HEAT-TP-T 50 rds 7.62mm	Moving flank PC, 900 to 1,100 meters, exposed for 50 seconds (gunner).	RPG team, 700 to 900 meters, exposed for 50 seconds (gunner).		CBRN (hatches closed, protective mask on)
Offense	2 rds HEAT-TP-T 50 rds 7.62mm	Bunkar, 400 to 600 meters, exposed for 50 seconds (gunner).	RPG team, 700 to 900 meters, exposed for 75 seconds (gunner).	Bunker, 600 to 800 meters, exposed for 60 seconds (15-second delay) (aurant)	None
Offense	1 rd TPDS-T 50 rds 7.62mm	Stationary frontal tank, 1,400 to 1,600 meters, exposed for 50 seconds (gunner).	Moving technical truck, 700 to 900 meters, exposed for 50 seconds (gunner).	(Build)	None
Defense	1 canister round 75 rds 7.62mm	10-man infantry squad, 100 to 300 meters, exposed for 50 seconds (VC).	Moving technical truck, 300 to 500 meters, exposed for 50 seconds (10-second delay) (VC).		GPCH failure

rring),
10-man infantry squad, 100 to 300 meters, exposed for 50 seconds (gunner).
RPG team, 100 to 300 Bunker, 400 to 600 meters, meters, exposed for 75 seconds (gunner). (gunner).
RPG team, 500 to 700 Stationary frontal truck, meters, exposed for 50 seconds (gunner). (VC).
Stationary frontal tank, RPG team, 500 to 700 1,400 to 1,600 meters, meters, exposed for 75 exposed for 50 seconds (gunner).
Stationary frontal PC, 1,200 to 1,400 meters, exposed for 50 seconds (gunner).
Window (room clearing), RPG team, 300 to 500 600 to 800 meters, exposed for 50 seconds seconds (VC).
10-man infantry squad, Bunker, 600 to 800 meters, exposed for 75 seconds (gunner).
Wall (infantry passage), Sniper in 2d-story window, 300 to 500 meters, exposed for 50 seconds exposed for 50 seconds (gunner).
10-man infantry squad, Bunker, 200 to 400 meters,

Advanced Gunnery

Advanced Combat Tables

- CT IX: Collective Training Course

(Section/Platoon)

CT X: Collective Qualification Course

(Platoon)

CT IX may be dry or device fired

MGS CT IX

Table IX is used to train the section and platoon in direct fire control, distribution, platoon maneuver, and command and control within a realistic COE-based tactical scenario.

- Day and night phase and is the preparatory table for Table X.
- Designed to challenge the platoon leader's command and control capabilities.
- Tests the platoon's ability to engage moving and stationary ground targets with all MGS-mounted weapon systems.
- Scenarios must also include friendly and noncombatant targetry presentations.
- The primary means of conducting this gunnery table is with the caliber 50 inbore device.

MGS CT X

Table X is the platoon qualification course.

distribution, platoon maneuver, and command and control within a realistic COE-based tactical scenario Used to test the platoon in direct fire control,

Designed to challenge the platoon leader's command and control capabilities and ability integrate fire and maneuver both during the day and at night. Scenarios must also include friendly and noncombatant targetry presentations.

Full-caliber live-fire table.

The platoon must qualify on Table IX prior to executing Table X

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MGS CALFEX

The CALFEX is the culmination of weapon systems training at the company-team level. It is used to train units to perform primary combat missions in a realistic, live-fire environment.

A CALFEX is a costly, resource-intensive exercise in which combined-arms teams, or task forces, maneuver and employ organic and supporting weapon systems.

It is the most realistic measure of combined-arms combat readiness and should be an integral part of every unit's training program

particularly in regard to flank maneuvering, and firing on live-fire Commanders must be aware of the limitations of the CALFEX. ranges

I

Commanders should use live-fire exercises to train certain aspects of combat readiness, such as distribution, coordination, and synchronization of direct and indirect fires. Available terrain will rarely support this type of maneuver.

Commands should try to link multiple digital multipurpose range complexes (DMPRC) for maximum training value whenever possible.